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## WHAT IS CLAIMED IS;

- 1. A security terminal system, comprising sampling means for sampling gases including the ambient air around a target object to be inspected, mass spectrometric means for analyzing the mass of the target gas to be inspected which has been sampled by said sampling means, communication means for sending and receiving information via a communication line, display means for displaying information, and control means for controlling said each means, wherein said control means outputs mass spectrometric data, which has been analyzed by said mass spectrometric means, to a communication line via said communication means, imports the determination result of a dangerous substance associated with said mass spectrometric data which has been received by said communication means via said communication line and then displays the result on said display means.
- 2. A security terminal system, comprising sampling means for sampling gases including the ambient air around a target object to be inspected, mass spectrometric means for analyzing the mass of the target gas to be inspected which has been sampled by said sampling means, determination means for determining whether or not a dangerous substance is present in the target gas and identifying the type of the substance, based on the mass spectrometric data which has been analyzed by said mass spectrometric means, communication means for sending and receiving information via a communication line, display

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means for displaying information, and control means for controlling said each means, wherein when the determination result by said determination means indicates the presence of a dangerous substance, said control means issues a command to said mass spectrometric means to change analysis conditions and execute a mass spectrometric process, outputs the revised mass spectrometric data, which has been analyzed by said mass spectrometric means, to a communication line via said communication means, imports the determination result of a dangerous substance associated with said revised mass spectrometric data received by said communication means via said communication line and then displays the result on said display means.

3. A security terminal system as claimed in Claim

1 or 2, further comprising a measuring device that

measures the weight of said target object to be inspected,

and an X-ray device that photographs an X-ray image of

said target object,

wherein when the determination result by said determination means indicates the presence of a dangerous substance, said control means imports the weight and X-ray image of said target object from said measuring device and said X-ray device, sends them to a communication line via said communication means and then displays a guide to precautions against said dangerous substance, on said display means, which has been received by said communication means via said communication line.

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4. A security support system, comprising determination means for determining whether or not a dangerous substance is present and identifying the type of the substance by collating mass spectrometric data of a mass spectrum with the reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, and control means for controlling said each means,

wherein said control means inputs said mass spectrometric data received by said communication means into said determination means and then outputs the determination result which is output by said determination means to said communication line via said communication means.

determination means for at least determining whether or not a dangerous substance is present by collating first mass spectrometric data of the target gas to be inspected with the first reference data used for the determination of the dangerous substance, second determination means for determining whether or not a dangerous substance is present and identifying the type of the substance by collating second mass spectrometric data of the target gas with the second reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, and control means for controlling

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said each means,

wherein said control means inputs first mass spectrometric data received by said communication means into said first determination means, and outputs the first determination result which is output by said first determination means to said communication line via said communication means, and when said first determination result indicates the presence of a dangerous substance, said control means issues a command to change analysis conditions and measure second mass spectrometric data to a communication line via said communication means.

6. A security support system as claimed in Claim 4 or 5, further comprising means for creating a guide to precautions against dangerous substances based on the weight and X-ray image of said dangerous substance, the type and shape of said dangerous substance and its storage vessel information which are received by said communication line via said communication means when the determination result indicates the presence of a dangerous substance,

wherein said control means outputs said precautions guide to said communication line via said communication means.

7. A security system consisting of a terminal system and a support system being connected to each other via a communication line so that they can communicate with each other,

wherein said terminal system comprises sampling means

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controlling said each means,

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for sampling gases including the ambient air around a target object to be inspected, mass spectrometric means for analyzing the mass of the target gas to be inspected which has been sampled by said sampling means, communication means for sending and receiving information via a communication line, display means for displaying information, and terminal system control means for

said terminal system control means outputting mass spectrometric data analyzed by said mass spectrometric means to a communication line via said communication means, importing the determination result of a dangerous substance associated with said mass spectrometric data received by said communication means via said communication line and then displaying the result on said display means; and

said support system comprises determination means for determining whether or not a dangerous substance is present and identifying the type of the substance by collating mass spectrometric data of a mass spectrum with the reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, and support system control means for controlling said each means,

said support system control means inputting said mass spectrometric data received by said communication means into said determination means and then outputting the

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determination result output by said determination means to said communication line via said communication means.

8. A security system consisting of a terminal system and a support system being connected to each other via a communication line so that they can communicate with each other,

wherein said terminal system comprises sampling means for sampling gases including the ambient air around a target object to be inspected, mass spectrometric means for analyzing the mass of the target gas to be inspected which has been sampled by said sampling means, first determination means for determining whether or not a dangerous substance is present in the target gas and identifying the type of the substance by collating first mass spectrometric data analyzed by said mass spectrometric means with first reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, display means for displaying information, and terminal system control means for controlling said each means,

said terminal system control means issuing a command to said mass spectrometric means to change analysis conditions and execute second mass spectrometric process when the determination result by said first determination means indicates the presence of a dangerous substance, outputting second mass spectrometric data analyzed by said mass spectrometric means to a communication line via

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said communication means, importing the determination result of the dangerous substance associated with said second mass spectrometric data received by said communication means via said communication line and then displaying the result on said display means; and

said support system comprises second determination means for determining whether or not a dangerous substance is present and identifying the type of the substance by collating said second mass spectrometric data with second reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, and support system control means for controlling said each means,

said support system control means inputting said second mass spectrometric data received by said communication means into said second determination means and outputting the determination result output by said determination means to said communication line via said communication means.

9. A security system consisting of a terminal system and a support system being connected to each other via a communication line so that they can communicate with each other,

wherein said terminal system comprises sampling means for sampling gases including the ambient air around a target object to be inspected, mass spectrometric means for analyzing the mass of the target gas to be inspected which has been sampled by said sampling means, communication means for sending and receiving information via a communication line, display means for displaying information, and terminal system control means for controlling said each means,

said terminal system control means outputting first mass spectrometric data analyzed by said mass spectrometric means to a communication line via said communication means, importing the determination result of the dangerous substance associated with said first mass spectrometric data received by said communication means via said communication line and displaying the result on said display means, and issuing a command to said mass spectrometric means to change analysis conditions and execute second mass spectrometric process when said determination result indicates the presence of a dangerous substance, then outputting second mass spectrometric data analyzed by said mass spectrometric means to a communication line via said communication means, importing the determination result of the dangerous substance associated with said second mass spectrometric data received by said communication means via said communication line and then displaying the result on said display means; and

said support system comprises first determination
means for at least determining whether or not a dangerous
substance is present by collating first mass
spectrometric data of the target gas to be inspected with

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the first reference data used for the determination of the dangerous substance, second determination means for determining whether or not a dangerous substance is present and identifying the type of the substance by collating second mass spectrometric data of the target gas with the second reference data used for the determination of the dangerous substance, communication means for sending and receiving information via a communication line, and support system control means for controlling said each means,

said support system control means inputting first mass spectrometric data received by said communication means into said first determination means, outputting the first determination result output by said first determination means to said communication line via said communication means, and then issuing a command to change analysis conditions and measure second mass spectrometric data to a communication line via said communication means when said first determination result indicates the presence of a dangerous substance.

A security system as claimed in any one of 10. Claims 7 through 9, wherein

said terminal system further comprises a measuring device that measures the weight of said target object to be inspected, and an X-ray device that photographs an Xray image of said target object,

said terminal system control means, when the determination result by said determination means

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indicates the presence of a dangerous substance, importing the weight and X-ray image of said target object from said measuring device and said X-ray device, sending them to a communication line via said communication means and then displaying a guide to precautions against said dangerous substance, on said display means, which has been received by said communication means via said communication line; and

said support system further comprises means for creating a guide to precautions against dangerous substances based on the weight and X-ray image of said dangerous substance, the type and shape of said dangerous substance and its storage vessel information received by said communication line via said communication means when the determination result indicates the presence of a dangerous substance,

said support system control means outputting said precautions guide to said communication line via said communication means.

11. A method of security service business wherein a terminal system equipped with mass spectrometric means is installed in an inspection area and a support system for determining whether or not a dangerous substance is present and identifying the type of the substance based on the mass spectrometric data on the target element which is measured by said mass spectrometric means is installed in an office at a security service enterprise; said terminal system and said support system being

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connected to each other via a communication line so that they can communicate with each other, and said support system sending the determination result the dangerous substance to said terminal system via said communication network.

- 12. A method of security service business as claimed in Claim 11, wherein said support system sends billing data for determination cost together with said determination result to said terminal system.
- 13. A method of security service business which provides a user with mass spectrometric means for analyzing the mass of the target element to be inspected either at the user's expense or free of charge, receives, via a communication line, mass spectrometric data which has been analyzed by said mass spectrometric means, collates the received data with the reference data related to dangerous substances, and then sends the checked results to said user.

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